

## ABSTRACT OF THE DISCLOSURE

### ETCHED CIRCUIT FOR LIGHTNING PROTECTION

The disclosure relates to the lightning protection of the transmitters in a transmission system. An etched circuit with lightning protection comprises at least one main line connected to a connector adapted to the output of the transmission antenna of the transmission system working at a fixed frequency  $f_0$  or in a narrow frequency band  $\Delta f_0$ , the circuit comprising a capacitor, wherein said circuit comprises at least one first line with a length  $l_1$  and a width that may or may not be constant, connected to said connector and terminated by a short-circuit forming an open circuit with respect to the main line. This circuit also carries out the harmonic filtering function, thus increasing compactness by using a single circuit for both functions. This device can also be applied to any field requiring either or both of these functions.

15 [Figure 5]